

22/72 PLUSPAT - (C) QUESTEL-ORBIT
✓PN - WO9423367 A1 19941013 [WO9423367]
TI - (A1) A METHOD FOR MAINTAINING A SEQUENCE OF EVENTS FUNCTION DURING
FAILOVER IN A REDUNDANT MULTIPLE LAYER SYSTEM
OTI - (A1) METHODE PERMETTANT DE MAINTENIR UNE SEQUENCE D'EVENEMENTS
FONCTIONS LORS D'UNE DEFAILLANCE DANS UN SYSTEME REDONDANT A COUCHES
MULTIPLES
LA - ENGLISH (ENG)
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AP - WOUS9403707 19940405 [1994WO-US03707]
PR - US4292393 19930406 [1993US-0042923]
IC - (A1) G06F-011/14
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DS - JP; AT (EP); BE (EP); CH (EP); DE (EP); DK (EP); ES (EP); FR (EP); GB
(EP); GR (EP); IE (EP); IT (EP); LU (EP); MC (EP); NL (EP); PT (EP);
SE (EP)
DT - Basic
CT - Cited in the search report
- EP434532 (A) (Cat. X); EP351109 (A) (Cat. A)
- See also references of EPA 0707722
STG - (A1) Publ. Of int. Appl. With int. Search rep
AB - In a process control system having a redundant multi-layer
hierarchical **structure**, each **node** of a layer being redundant sequence
of events inputs are received from field devices by an input/output
processor (IOP). The IOP is a digital input sequence of events (DISOE)
IOP, the IOP being the lowest layer of the hierarchical **structure**. The
IOP interfaces with a controller at the next layer of the hierarchy. A
method for reliably maintaining a sequence of events function during a
failover of any of the redundant **nodes**, comprising the steps of
maintaining a log, a circular list, by the local DISOE. The circular
list is a rolling log of all sequence of events data for a predefined
time period. When a **failover** occurs, the new primary **commands** an event
recovery. The event recovery process freezes the log and uses the
information in the log to recreate the events data. The freeze
operation inhibits background purge activity for the log thereby
avoiding the deletion of information past the defined time. New events
data is still entered in the log. Once the log has been processed the
freeze operation is negated. The recreated data is transmitted to the
controller in accordance with a predefined protocol, thereby avoiding
the loss of any events data as a result of the **failover**.